

AMENDMENTS TO THE CLAIMS

Please amend Claim 1 and add Claims 11-20 as follows.

LISTING OF CLAIMS

1. (currently amended) A heat exchanger for cooling air comprising:

tubes through which fluid flows, wherein the tubes are arranged vertically;

fins provided between the tubes; and

~~a header tank connected to bottom ends of the tubes, wherein the header tank is formed with drains, which are depressions, at positions between the tubes, wherein the drains downwardly direct water that accumulates between the tubes formed with slot openings and drains, wherein~~

the end of the tubes are inserted and brazed in the slot openings,

the drains are depressions and disposed between adjacent slot openings,

and

each drain has a length in a direction parallel to a longitudinal direction of each slot opening to drain water accumulated between the tubes.

2. (original) The heat exchanger according to claim 1, wherein each of the drains narrows toward its bottom.

3. (original) The heat exchanger according to claim 1, wherein a bottom of each of the drains slopes downward from its air upstream position toward its air downstream position.

4. (original) The heat exchanger according to claim 1, wherein a bottom of each of the drains slopes downward in a direction away from the tubes.

5. (original) The heat exchanger according to claim 1, wherein the drains have substantially diamond shapes when viewed in a direction substantially parallel to longitudinal directions of the tubes.

6. (original) The heat exchanger according to claim 1, further comprising:
a member defining a surface for facilitating drainage of water, wherein the member is disposed such that the surface is opposed to the header tank and spaced from ends of the drains by a predetermined distance.

7. (original) The heat exchanger according to claim 6, wherein the predetermined distance is in a range between equal to or greater than 0 mm and equal to or less than 1.0 mm.

8. (original) The heat exchanger according to claim 1, wherein a minimum distance between the fin and the header tank is in a range between equal to or greater than 0 mm and equal to or less than 1.00 mm.

9. (original) The heat exchanger according to claim 1, wherein the header tank has a first radius of curvature on a side adjacent to the tubes and a second radius

of curvature on a side opposite to the tubes, wherein the first radius is larger than the second radius.

10. (original) The heat exchanger according to claim 1, wherein the fluid is refrigerant.

11. (new) A heat exchanger comprising:
a plurality of tubes through which fluid flows, being arranged vertically and parallel with each other; and

a header tank connected to bottom ends of the tubes, which defines a chamber communicated with inner passages in the tubes, wherein
the header tank provides an upper wall on which the tubes are connected,
side walls and a bottom wall, and

the upper wall is partially deformed to define depressions located between the tubes, and the depressions are terminated at one of the side walls to drain water to the side wall through the depressions.

12. (new) The heat exchanger according to claim 11, wherein the upper wall has a plurality of slot openings in which the tubes are inserted and brazed respectively.

13. (new) The heat exchanger according to claim 11, wherein the header tank comprises:

a core plate (4a) providing the upper wall and the side walls; and

a tank plate (4b) providing the bottom wall, wherein
the depressions are terminated at one of lateral sides of the core plate
(4a).

14. (new) The heat exchanger according to claim 11, wherein the bottom wall
is formed to define a surface smoother than the upper wall along a longitudinal direction
of the header tank.

15. (new) The heat exchanger according to claim 11, wherein the
depressions are also terminated at the upper wall between the tubes.

16. (new) The heat exchanger according to claim 11, wherein the
depressions have lateral ends that are terminated at both of the side walls, respectively.

17. (new) The heat exchanger according to claim 11, wherein the
depressions are only formed on a lateral shoulder region of the header tank.

18. (new) The heat exchanger according to claim 11, further comprising fins
provided between the tubes.

19. (new) The heat exchanger according to claim 1, wherein
the header tank has a core plate and a tank plate joined to the core plate,
and

the slot openings and the drains are formed on the core plate.

20. (new) The heat exchanger according to claim 1, wherein
the header tank includes an upper wall, side walls, and a bottom wall,
the drain has a first end and a second end,
the first end is disposed on the upper wall between the tubes, and
the second end is disposed on one of the side walls.